



Search Results -- Patent Full Record

Patent 1 of 1

[SHOW DOCUMENTATION ABSTRACT](#)

☐ MARK

Patents Cited by Inventor: 0
Patents Cited by Examiner: 0

Citing Patents: 0

Articles Cited by Inventor: 0
Articles Cited by Examiner: 0

Patent Number(s):

JP2000204145-A [ORIGINAL DOCUMENT](#)

Title:

Manufacture of macromolecular polyethylene terephthalate, involves using crystalline polyethylene terephthalate prepolymer having specific ratio of terminal carboxy groups and hydroxy groups

Patent Assignee Name(s) and Code(s):

TEIJIN LTD (TEIJ)

Derwent Primary Accession Number:

2000-574592 [54]

Abstract:

NOVELTY - Low molecular crystalline polyethylene terephthalate prepolymer having an intrinsic viscosity of 0.07-0.28 and having specific ratio of terminal carboxy groups to hydroxy groups is subjected to solid phase polycondensation, to obtain macromolecular polyethylene terephthalate. The polycondensation is performed at 180-250 degreesC.

USE - For manufacture of macromolecular polyethylene terephthalate.

ADVANTAGE - Adhesion between polyethylene terephthalate prepolymer pellets and that between the pellets and container walls is minimized, thereby eliminating problems posed during polycondensation. Macromolecular polyethylene terephthalate having a uniform molecular weight and reduced acetaldehyde content is obtained.

DETAILED DESCRIPTION - Macromolecular polyethylene terephthalate (PET) having an intrinsic viscosity (η) of 0.5-2.0 is obtained by performing solid phase polycondensation of low molecular crystalline PET prepolymer, at 180-250 degreesC. The PET prepolymer has an intrinsic viscosity of 0.07-0.28 and the ratio of the amount of terminal carboxy groups (COOH) to hydroxy groups (OH) present in the prepolymer satisfies the relationships I and II.

International Patent Classification:

C08G-063/80

Derwent Class:

A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s):

A05-E04A; A10-D05

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
JP2000204145-A	25 Jul 2000	C08G-063/80	200054	Pages: 8	

Application Details and Date:

JP2000204145-A JP200338 14 Jul 1999

Priority Application Information and Date:

JP323312 13 Nov 1998

Patent 1 of 1

Acceptable Use Policy

Copyright © 2006 Thomson Derwent and Thomson ISI. FEEDBACK